

FINAL TECHNICAL REPORT / RAPPORT TECHNIQUE FINAL

ANNEX 2.9 DETAILS OF SUPPORT OFFERED TO FOOD ENTERPRISES IN TAMIL NADU

DHAN Foundation;Tamil Nadu Agricultural University;

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Annex 2.9

Details of support offered to micro, small and medium millet food enterprises in Tamil Nadu

As part of the on-site incubation support to 66 small millet food enterprises in Tamil Nadu, the following support was offered to them by Tamil Nadu Agricultural University (TNAU) and DHAN Foundation (DHAN):

1. Capacity building on small millet based food products development
2. Nutritional analysis of small millet food products
3. Sensory evaluation of small millet food products
4. Microbial analysis of small millet food products

The details of these activities are shared below.

1. Capacity building on small millet based food product development						
1. Training on value added small-millet-based food products training – DHAN &TNAU						
Sl. No.	Training site	Dates	Participants			Local partners
			Male	Female	Total	
1	Post Harvest Technology Centre, Coimbatore (PHTC)	09–10/12/2016	5	7	12	TNAU
2	PHTC	07-08/02/2017	4	6	10	TNAU
3	PHTC	22- 23/02/2017	11	15	26	TNAU
4	PHTC	05- 06/12/2017	5	6	11	TNAU
5	PHTC	12- 13/07/2016	4	13	17	TNAU
6	PHTC	15- 16/09/2016	5	13	18	TNAU
7	PHTC	27- 28/12/2016	3	15	18	TNAU
8	PHTC	30/01/2017	4	21	25	TNAU
9	PHTC	04- 05/04/2017	1	11	12	TNAU
10	PHTC	09/05/2017	7	10	17	TNAU

11	PHTC	04-05/07/2017	4	11	15	TNAU
12	PHTC	08- 09/08/2017	5	19	24	TNAU
13	PHTC	10- 11/10/2017	7	9	16	TNAU
14	PHTC	07- 08/11/2017	6	10	16	TNAU
15	PHTC	09-10/01/2018	4	12	16	TNAU
16	PHTC	06- 07/02/2018	5	9	14	TNAU
17	PHTC	15- 16/03/2018	3	7	10	TNAU
Total			83	194	277	
2. Training on therapeutic foods from small millet food products – DHAN &TNAU						
18	Post Harvest Technology Centre, Coimbatore	16/05/2017	12	15	27	TNAU
3. Training on value added small millet food products – DHAN & Others						
19	Rajendranagar, Hyderabad	12-13/08/2016	5	1	6	Indian Institute of Millets Research (IIMR)
20	Sulur, Coimbatore	24/11/2016	6	5	11	Aram Foods
21	Red hills, Chennai	18- 22/12/2017	4	6	10	Tamil Nadu Veterinary and Animal Sciences University (TANUVAS)
22	Red hills, Chennai	29- 02/02/2018	1	5	6	TANUVAS
Total			16	17	33	
4. Training on food safety and quality control – DHAN & TNAU						
23	Post Harvest Technology Centre, Coimbatore	31/08/2016	17	8	25	TNAU
24	Post Harvest Technology Centre, Coimbatore	23/03/2017	9	18	27	TNAU
Total			26	26	52	

5. Training on food packaging – DHAN & TNAU						
25	Post Harvest Technology Centre, Coimbatore	23/11/2016	5	6	11	TNAU
26	Post Harvest Technology Centre, Coimbatore	24/03/2017	10	17	27	TNAU
27	Post Harvest Technology Centre, Coimbatore	03/11/2016	6	19	25	TNAU
Total			21	42	63	

2. Nutritional analysis of small millet food products

Sl. No	Name of the food enterprises	No. of products tested
1	Amirdham Foods (Chennai)	3
2	Century Foods (Abiramam)	5
3	JJJ Millet (Madurai)	5
4	Akshaya Foods(Coimbatore)	2
5	Parameshwari Foods (Madurai)	1
6	Aboorva Foods (Madurai)	3
7	Mothi Foods (Virudhunagar)	1
8	Green Happy (Arupukottai)	1
9	Atchaya Foods (Madurai)	4
10	Padmasree Foods (Madurai)	3
11	Anu Green (Madurai)	2
12	Jonvar Foods (Ranipettai)	1
13	Thai Foods (Trichy)	6
14	Natrinai Foods (Chennai)	2
15	Ganesh Foods (Rasipuram)	1
16	Lakshmi Foods (Madurai)	2
17	NS Foods (Erode)	9
18	Anu Foods (Hosur)	2
19	Sri Ganapathy Foods (Coimbatore)	4
20	Amudham Foods (Hosur)	3
21	Chithran Foods (Pennadam)	1
22	Sumee Foods (Mannarkudi)	4
23	Sri Vari Foods (Trichy)	6
Total products tested		71

3. Sensory evaluation of small millet food products

Sl. no	Company Name & Address	No. of products	Product name	Nutrient content from label	Sensory scores
1	Mothi Foods, Chinnathapuram, Virudhunagar – 6260003. Phone No: 9842142049	1	<i>Thinai</i> (Foxtail Millet) Cookies	Not Available	7.5
		2	Health mix	Not Available	8.5
2	Thai Foods 14, Nehru street, Trichy Phone No: 7708617811	3	<i>Kuthiraivali</i> (Barnyard Millet) cookies	Not Available	8.0
		4	<i>Thinai</i> (Foxtail Millet) Rusk	Not Available	8.3
3	Padmashree Foods 168, Nagupillai thopu street, Tharichanthai, Madurai -1 Phone No: 9042478429	5	Millet multigrain <i>Adai dosa</i> mix	Not Available	8.2
		6	<i>Cambu</i> (Pearl Millet) <i>Dosai</i> mix	Not Available	9.0
		7	Millet Puttu mix	Not Available	9.0
		8	Millet <i>Ulundhu kali</i> mix	Not Available	8.0
		9	Health Mix	Not Available	9.0
4	Atchaya Foods 15-B, New Ramnad road, Near Abirami Kalyana Mandapam, Madurai -625009	10	<i>Kuthiraivali</i> (Barnyard Millet) <i>Murungai dosai</i>	Not Available	7.5
5	Aboorva Foods Madurai-14. Phone No. 9865829135	11	<i>Ragi</i> (Finger Millet) <i>Dosa mix</i>	Not Available	7.0
		12	<i>Cambu</i> (Pearl Millet) <i>Dosa</i> mix	Not Available	8.5
		13	<i>Adai</i> mix	Not Available	7.0
		14	<i>Chappathi</i> mix	Not Available	8.2
		15	Health mix	Not Available	8.5
		16	Kodo Millet <i>Sambar rice</i> mix	Not Available	8.0
		17	Millet <i>Puttu</i> Mix	Not Available	8.0

		18	<i>Adai</i> Mix	Not Available	8.0
6	SP Foods 81, Nadar Melaratha Veedhi, Aruppukottai- 626101. Phone No. 9443369382	19	Millet Cookies	Not Available	7.0
7	Parameswari Foods, Thathaneri, Madurai-18. Phone No. 9894099097	20	<i>Adai</i>	Not Available	7.5
8	Anu Green Anaiyur, Madurai-18 Cell: 8144455977	21	<i>Puttu</i> mix	Not Available	8.5
		22	Little Millet and drumstick leaves <i>adai</i> mix	Not Available	6.5
		23	<i>Paruthipaal</i> Mix	Not Available	4.0
		24	<i>Thinai</i> Samai Kanji (Foxtail Millet & Little Millet)	Not Available	7.0
		25	<i>Adai</i>	Not Available	7.5
		26	Health Mix	Not Available	8.5
		27	<i>Navadhanya</i> Banana Flour Mix	Not Available	7.0
		28	Foxtail <i>Paruthipaal</i>	Not Available	8.0
9	Lakshmi Foods 4/222, Railway Fooder Road, Kutthiyarkundu, Madurai	29	Little Millet <i>Sevu</i>	Not Available	8.6
10	Century Foods, Abiramam	30	Health mix	Not Available	8.7
11	Sri Vari Foods No: 6, Ambethkar street, Godown no: 12 – A, Oil mill road, Ariyamangalam, Trichy – 620010.	31	Millet <i>Dosa</i> mix	Not Available	8.2
		32	Millet <i>Adai</i> mix	Not Available	8.4
		33	Millet <i>Upma</i> mix	Not Available	8.5
		34	Millet <i>Chappathi</i> mix	Not Available	9.0
		35	1. <i>Cambu</i> (Pearl Millet) Cookies	Not Available	9.0
		36	2. Kuthiraivali (Barnyard Millet) Cookies	Not Available	9.0

		37	3. <i>Samai</i> (Little Millet) Cookies	Not Available	9.0
		38	4. <i>Thinai</i> (Foxtail Millet) Cookies	Not Available	9.0
		39	5. Varagu (Kodo Millet) cookies	Not Available	9.0
		40	6. Ragi (Finger Millet) cookies	Not Available	9.0
		41	7. Multi millet Cookies	Not Available	9.0
		42	<i>Thinai</i> (Foxtail Millet) Vermicelli	Not Available	7.9
12	Sri Ganapathy Foods Near A.N.P Hospital, Uliyam Palayam, Thondamuthur road. Coimbatore	43	Multi millet <i>Biriyani</i> mix	Not Available	8.7
		44	Multi millet Health mix	Not Available	8.8
13	Fibro Foods Salem, Tamil Nadu.	45	Multi millet <i>Adai</i> mix	Not Available	8.5
		46	Multi millet <i>Kheer</i>	Not Available	8.3
		47	Finger Millet <i>Puttu</i>	Not Available	8.3
		48	Pearl Millet Porridge	Not Available	8.0
		49	Multi millet <i>Kichadi</i>	Not Available	8.5
		50	Multi millet <i>Biriyani</i>	Not Available	8.8
		51	Pearl Millet <i>Rava Dosa</i> mix	Not Available	8.4
		52	Multi millet <i>Rava Dosa</i> mix	Not Available	8.8
		53	Multi millet <i>Kara pongal</i>	Not Available	8.2
		54	Multi millet <i>Upma</i>	Not Available	8.3
		55	Finger Millet <i>Rava Dosa</i> mix	Not Available	8.3
		56	<i>Ragi</i> (Finger Millet) Porridge	Not Available	8.2
14	Amirdham Foods 16H, Thiruvalluvar	57	Finger Millet whole wheat Fusilli pasta	Not Available	8.1

	Nagar, Tondiarpet, Chennai.	58	Foxtail Millet whole wheat Fusilli pasta	Not Available	8.4
		59	Little Millet whole wheat Fusilli pasta	Not Available	8.4
		60	Barnyard Millet <i>Pongal</i> mix	Not Available	8.6
		61	<i>Thinai</i> (Foxtail Millet) <i>Adai</i> mix	Not Available	8.3
15	Aagaaram Foods 50, K.K. Nagar, Chinnamalai Road, Erode – 638009.	62	Multi millet <i>Dosa</i> mix	Consistency could be improved by making the flour mix coarse.	8.4
		63	Multi millet <i>Adai dosa</i> mix	Acceptable.	8.3
		64	Multi millet Health mix	Highly acceptable.	8.7
16	Thai Sai Foods 4/165, Aruloli Nagar, Bodichinnampalayam, Alukkuli – 638 453. Gobichettipalayam	65	Health mix	Not Available	8.8
17	Aero Foods Virudhachalam	66	Health Mix	Not Available	9.0
		67	Foxtail Millet <i>Chappathi</i> Mix	Not Available	7.0
		68	<i>Ragi</i> (Finger Millet) <i>Idiyappam</i>	Not Available	9.0
18	Natrinal Foods Chennai	69	<i>Dosa</i> Mix	Not Available	7.0
		70	Health Mix	Not Available	9.0
		71	<i>Adai</i> Mix	Not Available	8.0
19	Nalam Foods Pondicherry	72	Little Millet Vermicelli	Not Available	9.0
20	Akshaya Foods Coimbatore	73	<i>Ragi</i> (Finger Millet) Malt	Not Available	8.0
		74	Health Mix	Not Available	8.0
21	Ganesh Foods Rasipuram	75	Health Mix	Not Available	8.0
22	NS Foods Erode	76	Health Mix	Not Available	8.0
		77	Multi millet Cookies	Not Available	8.0

23	Proteman Foods 4/63, Thondamuthur Road, Parameshwaran Palayam, Coimbatore-09 Phone: 9994031499	78	Pearl Millet Vermicelli	Not Available	9.0
		79	Kodo Vermicelli	Not Available	8.0
		80	Barnyard millet Vermicelli	Not Available	9.0

4. Microbial analysis of small millet food products

Sl. No.	Name of Industry	No. of products	Samples	Yeast and Mold	E.coli	Total plate count
1	Sri Vari Foods Sri Venkatachalapathi modern rice mill, Ariyamagalam, Trichy-620010. Tamil Nadu	1	<i>Thinai</i> (Foxtail Millet) vermicelli	Nil	1.36×10 ²	1.72 × 10 ⁴
		2	Multi millet <i>Dosa</i> mix	Nil	Nil	2.31× 10 ³
		3	Multi millet <i>Murukku</i> mix	Nil	Nil	7.03× 10 ⁵
		4	<i>Kuthiraivali</i> (Barnyard Millet) <i>idiyappam</i> mix	Nil	Nil	5.27 × 10 ⁵
		5	<i>Ragi</i> (Finger millet) <i>idiyappam</i> mix	Nil	Nil	6.04 × 10 ⁵
		6	Health mix	Nil		3.07 × 10 ⁴
		7	Millet <i>Thinai</i> (Foxtail Millet) <i>puttu</i> mix	Nil	Nil	2.40 × 10 ⁴
2	Aero Foods #502, Pudukkurai pettai, Cuddalour main road, Vriddhachalam-606001.	8	Millet based Health mix	Nil	Nil	6.27 × 10 ⁵
		9	Millet based <i>Chappathi</i> and <i>poori</i> flour	Nil	Nil	3.36 × 10 ⁵
		10	Millet based <i>ragi</i> (Finger Millet) <i>idiyappam</i> flour	Nil	1.31×10 ³	3.77× 10 ⁵
3	Aboorva Foods Plot No.9, K.P. Garden, Alathoor, Madurai-14.	11	<i>Varagu</i> (Kodo Millet) <i>sambar</i> rice mix	Nil	Nil	2.45 × 10 ⁵
		12	Multi millet <i>Adai</i> mix	Nil	Nil	2.86× 10 ⁴
		13	Millet <i>Puttu</i> mix	Nil	Nil	2.18 × 10 ⁴
4	Natrinal Foods Parvathi Nagar, Chennai – 600 063.	14	<i>Dosa</i> mix	Nil	Nil	6.81 × 10 ⁴
		15	Health mix	Nil	Nil	4.54 ×10 ³
		16	<i>Adai</i> mix	Nil	Nil	8.18 ×10 ³
5	Akshaya Foods (Ragi vitta) 20-H, D.G. Nagar, Veerakeralam, Sugar Cane Post, Coimbatore-17 Phone: 0422-6575758	17	<i>Ragi</i> (Finger Millet) malt	Nil	Nil	8.63 × 10 ⁴
		18	Small millet Health drink	Nil	Nil	8.63 × 10 ³

6	Nalam Foods LFP, Railway Feeder Road, Kuthiyavarkundu Madurai	19	<i>Samai</i> (Little Millet) <i>sevu</i>	Nil	Nil	2.72×10^5
7	Anu Green Anu premium food products, Madurai	20	<i>Navathanya</i> banana flower <i>Adai</i> mix	Nil	Nil	2.50×10^4
		21	<i>Thinai</i> (Foxtail Millet) <i>paruthi paal</i>	Nil	Nil	2.54×10^4
		22	Health mix	Nil	Nil	6.72×10^4
8	Atchaya Foods No.163/2, Thangam Nagar, Kamarajar Salai, Madurai	23	Health mix	Nil	Nil	6.36×10^3
		24	Multi millet <i>Adai</i> mix	Nil	Nil	3.91×10^3
		25	Millet <i>thoodhuvalai</i> soup mix	Nil	Nil	4.02×10^4
9	Mothi Foods Chinna Thathampatti, Virudhunagar – 6260003. Phone No: 9842142049.	26	Multi grain Health mix	Nil	Nil	2.27×10^3
10	Parameshwari Foods, Thathaneri, Madurai-18. Phone No. 9894099097	27	Millet <i>Adai</i> mix	Nil	Nil	1.45×10^4
		28	Health mix	Nil	Nil	2.03×10^4
11	Proteman Foods 4/63, Thondamuthur Road, Parameshwaran Palayam, Coimbatore-09 Phone: 9994031499	29	Pearl Millet vermicelli	Nil	Nil	1.72×10^4
		30	Kodo Millet vermicelli	Nil	Nil	1.04×10^4
12	Fibro Foods Salem, Tamil Nadu	31	Pearl Millet Porridge	Nil	Nil	3.04×10^3
		32	Multi millet <i>Adai</i> mix	Nil	Nil	1.45×10^3
		33	<i>Ragi</i> (Finger Millet) Porridge	Nil	Nil	6.86×10^3
		34	Finger millet puttu	Nil	Nil	5.77×10^5
		35	Pearl millet <i>Rava Dosa</i> mix	Nil	Nil	2.03×10^3
		36	Multi millet <i>Upma</i>	Nil	Nil	6.40×10^3
		37	Multi millet <i>Biriyani</i> mix	Nil	Nil	1.86×10^3
		38	Multi millet <i>kichadi</i> mix	Nil	Nil	3.90×10^3
		39	Finger millet <i>Rava Dosa</i>	Nil	Nil	7.27×10^5

mix						
13	Agaaram Foods 50, K.K. Nagar, Chinnamalai Road, Erode -638009.	40	Multi millet <i>Dosa</i> mix	Nil	Nil	3.18×10^3
		41	Multi millet <i>Adai</i> mix	Nil	Nil	6.27×10^3
		42	Multi millet <i>Idli</i> powder	Nil	Nil	2.18×10^3
14	Thai Foods 14, Nehru street, Trichy - 6.	43	Multi millet Health mix	Nil	Nil	1.13×10^3
15	Sri Ganapathy Foods Thondamuthur road, Coimbatore.	44	Multi millet Health mix	Nil	Nil	6.81×10^5
16	Amirdham Foods 16-H, Thiruvalluvar nagar, Tondiarpet, Chennai.	45	<i>Thinai</i> (Finger Millet) <i>adai</i> mix	Nil	Nil	2.72×10^3
		46	Barnyard Millet <i>Pongal</i> mix	Nil	Nil	6.86×10^3
		47	Foxtail Millet whole wheat Fusilli pasta	Nil	Nil	3.04×10^3
17	Padmashree Foods 168, Nagupillai Thopu street, Tharichanthai, Madurai -1.	48	<i>Varagu</i> (Kodo Millet) <i>Murukku</i> mix	Nil	9.09×10^4	Nil
		49	<i>Kuthiraivali</i> (Barnyard Millet) <i>idiyappam</i> mix	Nil	11.27×10^5	Nil
		50	<i>Ragi</i> (Finger Millet) <i>idiyappam</i> mix	Nil	6.04×10^5	Nil
		51	Health mix	Nil	7×10^4	1.18×10^2
		52	<i>Thinai</i> (Foxtail Millet) <i>Puttu</i> mix	Nil	2.40×10^4	2.27×10^1